

Hydroacoustic Monitoring of Fish Passage at Lower Granite Dam, relative to the Removable Spillway Weir

Placeholder for 2005 Research

AFEP Study Code: SBE-W-05-2

This work will be accomplished by contract through the Walla Walla District's Professional Services Contracts with Battelle and Normandeau.

Project Summary: Fish passage will be monitored with fixed hydroacoustics at turbine intakes, conventional spillbays and the Removable Spillway Weir (RSW).

Study Objective: Assess relative fish passage at the RSW with the Behavioral Guidance Structure (BGS) in the "deployed" versus the "stored" position.

Preliminary study plans call for the RSW to be operated continuously throughout the spring and summer study periods (approximately April 15 through July 20). A training spill of 12 kcfs has been used successfully in the past during spring migration periods. It is anticipated that this training spill would be used in spring 2005. The relocated and modified BGS will be moved in and out of position periodically throughout the spring evaluation to assess its contribution to fish passage, particularly at the RSW.

Summer operations have not been discussed in detail at this time.

Hydroacoustic transducers will be deployed to detect fish passing spillbays, the RSW and the turbine intakes. It is likely that a single down-looking transducer will be placed in each conventional spillbay, two or more transducers will be deployed on the RSW to detect fish passing that route. At least one of three intake bays in each turbine intake will be used to estimate fish passing into turbine intakes. There are no current plans to deploy transducers to measure fish guidance by the Extended-length Submersible Bar Screens.